

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/888,164

DATE: 10/01/2001

TIME: 15:08:23

Input Set : A:\212241.txt

Output Set: N:\CRF3\10012001\I888164.raw

3 <110> APPLICANT: Ts'o, Paul O.P.
4 Hangeland, Jon
5 Deamond, Scott
6 Roby, Clinton
8 <120> TITLE OF INVENTION: LIGANDS TO ENHANCE CELLULAR UPTAKE OF BIOMOLECULES
10 <130> FILE REFERENCE: 212241
12 <140> CURRENT APPLICATION NUMBER: US 09/888,164
C--> 13 <141> CURRENT FILING DATE: 2001-09-10
15 <150> PRIOR APPLICATION NUMBER: 09/282,455
16 <151> PRIOR FILING DATE: 1999-03-31
18 <150> PRIOR APPLICATION NUMBER: 08/755,062
19 <151> PRIOR FILING DATE: 1996-11-22
21 <150> PRIOR APPLICATION NUMBER: 60/007,480
22 <151> PRIOR FILING DATE: 1995-11-22
24 <160> NUMBER OF SEQ ID NOS: 33
26 <170> SOFTWARE: PatentIn version 3.1
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30 <212> TYPE: DNA
31 <213> ORGANISM: Artificial Sequence
33 <220> FEATURE:
34 <223> OTHER INFORMATION: DNA fragment from Hepatitis B virus ✓
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42 <212> TYPE: DNA
43 <213> ORGANISM: Artificial Sequence
45 <220> FEATURE:
46 <223> OTHER INFORMATION: DNA fragment from Hepatitis B virus ✓
48 <400> SEQUENCE: 2
49 gatgactgtc tctta 15
52 <210> SEQ ID NO: 3
53 <211> LENGTH: 15
54 <212> TYPE: DNA
55 <213> ORGANISM: Artificial Sequence
57 <220> FEATURE:
58 <223> OTHER INFORMATION: DNA fragment from Hepatitis B virus ✓
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64 <210> SEQ ID NO: 4
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66 <212> TYPE: DNA
67 <213> ORGANISM: Artificial Sequence
69 <220> FEATURE:
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72 <400> SEQUENCE: 4

ENTERED

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79 <213> ORGANISM: Artificial Sequence
81 <220> FEATURE:
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84 <400> SEQUENCE: 5
85 tctccatggt cg                                         12
88 <210> SEQ ID NO: 6
89 <211> LENGTH: 15
90 <212> TYPE: DNA
91 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: DNA fragment from Hepatitis B virus ✓
96 <400> SEQUENCE: 6
97 gaatcctgat gtaat                                     15
100 <210> SEQ ID NO: 7
101 <211> LENGTH: 15
102 <212> TYPE: DNA
103 <213> ORGANISM: Artificial Sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: DNA fragment from Hepatitis B virus ✓
108 <400> SEQUENCE: 7
109 aacatgaggg aaaca                                     15
112 <210> SEQ ID NO: 8
113 <211> LENGTH: 23
114 <212> TYPE: DNA
115 <213> ORGANISM: Artificial Sequence
117 <220> FEATURE:
118 <223> OTHER INFORMATION: DNA fragment from Hepatitis B virus ✓
120 <400> SEQUENCE: 8
121 tgctcatggt gcacggtcta cga                             23
124 <210> SEQ ID NO: 9
125 <211> LENGTH: 20
126 <212> TYPE: DNA
127 <213> ORGANISM: Artificial Sequence
129 <220> FEATURE:
130 <223> OTHER INFORMATION: DNA fragment from Hepatitis C virus ✓
132 <400> SEQUENCE: 9
133 ctttcgcgac ccaacactac                                20
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138 <212> TYPE: DNA
139 <213> ORGANISM: Artificial Sequence
141 <220> FEATURE:
142 <223> OTHER INFORMATION: DNA fragment from Hepatitis C virus ✓
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145 catgatgcac ggtctacgag a                               21

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148 <210> SEQ ID NO: 11
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153 <220> FEATURE:
154 <223> OTHER INFORMATION: DNA fragment from Hepatitis C virus ✓
156 <400> SEQUENCE: 11
157 gcctttcgcg acccaacact                                20
160 <210> SEQ ID NO: 12
161 <211> LENGTH: 17
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: DNA fragment from Hepatitis C virus ✓
168 <400> SEQUENCE: 12
169 gcctttcgcg acccaac                                17
172 <210> SEQ ID NO: 13
173 <211> LENGTH: 17
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: DNA fragment from Hepatitis C virus ✓
180 <400> SEQUENCE: 13
181 gcctttcgcg acccaac                                17
184 <210> SEQ ID NO: 14
185 <211> LENGTH: 20
186 <212> TYPE: DNA
187 <213> ORGANISM: Artificial Sequence
189 <220> FEATURE:
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192 <400> SEQUENCE: 14
193 gtgctcatgg tgcacggtct                                20
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197 <211> LENGTH: 16
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: DNA fragment from Hepatitis C virus ✓
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208 <210> SEQ ID NO: 16
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210 <212> TYPE: DNA
211 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: DNA fragment from Hepatitis C virus ✓
216 <400> SEQUENCE: 16
217 ctgctcatgg tgcacggtct                                20
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221 <211> LENGTH: 15
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229 <210> SEQ ID NO: 18
230 <211> LENGTH: 15
231 <212> TYPE: DNA
232 <213> ORGANISM: Hepatitis D Virus
234 <400> SEQUENCE: 18
235 ctcggctaga ggcgg 15
238 <210> SEQ ID NO: 19
239 <211> LENGTH: 15
240 <212> TYPE: DNA
241 <213> ORGANISM: Hepatitis D Virus
243 <400> SEQUENCE: 19
244 ctgggaccgg ctcgt 15
247 <210> SEQ ID NO: 20
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249 <212> TYPE: DNA
250 <213> ORGANISM: Hepatitis D Virus
252 <400> SEQUENCE: 20
253 tcttcgagg tccgg 15
256 <210> SEQ ID NO: 21
257 <211> LENGTH: 17
258 <212> TYPE: DNA
259 <213> ORGANISM: Hepatitis D Virus
261 <400> SEQUENCE: 21
262 atatcctatg gaaatcc 17
265 <210> SEQ ID NO: 22
266 <211> LENGTH: 15
267 <212> TYPE: DNA
268 <213> ORGANISM: Hepatitis D Virus
270 <400> SEQUENCE: 22
271 tgagtggaaa cccgc 15
274 <210> SEQ ID NO: 23
275 <211> LENGTH: 17
276 <212> TYPE: DNA
277 <213> ORGANISM: Hepatitis D Virus
279 <400> SEQUENCE: 23
280 atttgcaagt caggatt 17
283 <210> SEQ ID NO: 24
284 <211> LENGTH: 15
285 <212> TYPE: RNA
286 <213> ORGANISM: Artificial Sequence
288 <220> FEATURE:
289 <223> OTHER INFORMATION: RNA fragment from hepatoma-derived cells ✓
291 <400> SEQUENCE: 24
292 agucagucag ucagu 15

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295 <210> SEQ ID NO: 25
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297 <212> TYPE: RNA
298 <213> ORGANISM: Artificial Sequence
300 <220> FEATURE:
301 <223> OTHER INFORMATION: RNA fragment from hepatoma-derived cells ✓
303 <400> SEQUENCE: 25
304 guucuccaug uucag 15
307 <210> SEQ ID NO: 26
308 <211> LENGTH: 21
309 <212> TYPE: RNA
310 <213> ORGANISM: Artificial Sequence
312 <220> FEATURE:
313 <223> OTHER INFORMATION: RNA fragment from hepatoma-derived cells ✓
315 <400> SEQUENCE: 26
316 uuuaaaggg ucgaugucca u 21
319 <210> SEQ ID NO: 27
320 <211> LENGTH: 15
321 <212> TYPE: DNA
322 <213> ORGANISM: Artificial Sequence ✓
324 <220> FEATURE:
325 <223> OTHER INFORMATION: Antiviral oligonucleotide ✓
327 <400> SEQUENCE: 27
328 gttctccatg ttcag 15
331 <210> SEQ ID NO: 28
332 <211> LENGTH: 21
333 <212> TYPE: DNA
334 <213> ORGANISM: Artificial Sequence ✓
336 <220> FEATURE:
337 <223> OTHER INFORMATION: Antiviral oligonucleotide ✓
339 <400> SEQUENCE: 28
340 tttataaggg tcgatgtcca t 21
343 <210> SEQ ID NO: 29
344 <211> LENGTH: 16
345 <212> TYPE: DNA
346 <213> ORGANISM: Artificial Sequence ✓
348 <220> FEATURE:
349 <223> OTHER INFORMATION: Control oligomer ✓
351 <400> SEQUENCE: 29
352 aaagccaccc aaggca 16
355 <210> SEQ ID NO: 30
356 <211> LENGTH: 22
357 <212> TYPE: DNA
358 <213> ORGANISM: Artificial Sequence ✓
360 <220> FEATURE:
361 <223> OTHER INFORMATION: DNA fragment non-complementary from Hepatitis B virus ✓
363 <400> SEQUENCE: 30
364 tgagctatgc acattcagat tt 22
367 <210> SEQ ID NO: 31

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/888,164

DATE: 10/01/2001

TIME: 15:08:25

Input Set : A:\212241.txt

Output Set: N:\CRF3\10012001\I888164.raw

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date